



# AGENDA

**Concrete Products Task Group Meeting  
(CT-Industry)**  
**Jan 9, 2014**  
**Time 10:00 AM to 12:00 PM**  
**OSM Conference Room,**  
**Room 514**  
**5900 Folsom Blvd.**  
**Sacramento, CA 95814**

Time	Topic	Presented By	Purpose/Endstate
1000 – 1005	Welcome, Attendance and Agenda Review	All Co-Chairs	Meeting Begins
1005 – 1015	Review Last Meeting's action items	All Co-Chairs	Establish/Close-Out Due-Outs
1015 – 1020	Housekeeping Items – The following are to be discussed: <ul style="list-style-type: none"> <li>• Current Print-Out Package</li> <li>• Concrete Task Group Website</li> <li>• 2014 Calendar</li> </ul>	Bobby Petska	Ensure all members are postured for success
1020 – 1040	"State of the Industry" Update Brief	Industry Co-Chairs	Ensure key concerns from Industry are heard
1040 – 1050	Revisiting of Concrete Task Group Operating Principles	TG Co-Chairs	Ensure all TG protocols are understood and reinforced
Sub-Task Group co-chairs provide update on <ul style="list-style-type: none"> <li>• Overview of Actions taken place over last quarter</li> <li>• Upcoming Actions for next quarter</li> <li>• Review of Issues, including level of effort and potential updates to Scoping Documents</li> <li>• Discussions of any new proposed Scoping Documents</li> <li>• Discuss any recommendations for changes in priorities</li> </ul>			
1050 – 1110	Materials/QA Sub-Task Group	Keith Hoffman/Mark Hill	STG Co-Chairs provide update on decisions made/concerns for each activity
1110 – 1130	CIP Pavement Sub-Task Group	Cornelis Hakim/Craig Hennings	STG Co-Chairs provide update on decisions made/concerns for each activity
1130 – 1150	Precast Sub-Task Group	Keith Hoffman/Cliff Ohlwiler	STG Co-Chairs provide update on decisions made/concerns for each activity
1150 – 1200	Round Table Discussion, Discussion Issues, Questions and Action items	All	Document due-outs and decisions made

## Concrete Products Meeting Action Item Review

Below is the brief summary and status of action items from the previous TG meetings:

Action Items from 10/10/13 meeting	Due Date	Responsible Person	Status
Post significant accomplishments for the Task Group Meeting onto the TG Website	9 Jan 2014	Bobby Petska	Complete
Participant Memo for the Keith Hoffman for the Precast STG	9 Jan 2014	Bobby Petska	Complete; Included in Package
Change TG Website and the TG Package to reflect Cornelis Hakim as the CIP Pavement STG Co-Chair	9 Jan 2014	Bobby Petska	Complete
Create an updated 2014 Calendar and distribute to TG for comment	9 Jan 2014	Bobby Petska	Complete; Included in Package
Provide examples of Mix Designs or Project EA information with aggregate test result discrepancies or concerns	16 Oct 2013	Craig Hennings	Pending
Conduct follow-on discussion regarding Mix Designs or Project EA information with aggregate test result discrepancies or concerns	30 Nov 2013	Bobby Petska/Dan Speer/Keith Hoffman	Pending Mix Designs from Industry
Recommend inviting the Chief of Project Management/Project Delivery (Jim Davis) to speak to Industry at the 30 October RPC Meeting.	16 Oct 2013	Concrete TG Co-Chairs	Invitation Sent
Conduct follow-on discussion regarding the closure of the Precast Pavement activity	9 Jan 2014	Concrete TG Co-Chairs	Final Specification and Plans Distributed
Invite Keith Hoffman/Mark Hill/Mike Lee to 12 November Early Age Cracking discussion meeting	1 Nov 2013	Craig Hennings/Cornelis Hakim	Pending
Obtain Early Age Cracking report and discuss at future meetings	9 Jan 2014	Keith Hoffman	Distributed on 7 November

Action Items from 7/11/13 meeting	Due Date	Responsible Person	Status
Garner resolution from Construction for the purpose of the changes to the Section 90-4 final specification	17 July 2013	Chuck Suszko/Bobby Petska/Precast STG Members	Specification finalized on 20 July
Distribute to TG for Final Review the Report and Executive Summary for the COTE Activity	20 Sept 2013	Amy Fong	Complete
Update Final Completion for QCQA Activity on Activity Tracker	10 Oct 2013	Keith Hoffman/Bobby Petska/Mark Hill	Complete
Update Final Completion for Recycled Concrete on Activity Tracker	10 Oct 2013	Keith Hoffman/Bobby Petska/Mark Hill	Complete
Update Precast Pavement Scoping Document to reflect updated Deliverables	10 Oct 2013	Mehdi Parvini	Activity Complete after Spec Review
Update Bin List Priority for Materials/QA STG and determine which projects would be next in line	10 Oct 2013	Materials/QA STG Co-Chairs	Complete

## Memorandum

*Flex your power!  
Be energy efficient!*

**To:** DAN SPEER/AMY FONG/CHUCK SUSZKO/CHARLEY REA/RON STICKEL  
Co-Chairmen  
Concrete Products Task Group

**Date:** 2Dec13  
**File:** Precast STG

**From:** Jeremy Peterson-Self/Cliff Ohlwiler  
Co-Chair  
Precast Subtask Group

**Subject:** Memorandum Requesting Additional Participation/STG Co-Chair Change in Precast STG

The RPC Chairman has frequently emphasized the importance of accountability in all of the issues that we discuss. The decision-making ability and presence of key personnel, on all Subtask Groups, will help expedite issue resolutions and bring quick results.

With this memorandum, I am requesting to extend an invitation to the following members for the purpose of joining/chairing the Precast Subtask Group:

Keith Hoffman	METS-OSM	510-376-7627
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It is my belief that the presence of this member in the Subtask Group will allow us to accomplish our highest priority activities, build a trust with our industry counterparts, and ensure that the most qualified personnel are involved in the decision-making process.

If you have any question regarding this memorandum, please contact the undersigned.

### Concurrence Received

Approved By:	_____	Date:_____
	Dan Speer (TG Co-chair)	
Approved By:	_____	Date:_____
	Amy Fong (TG Co-chair)	
Approved By:	_____	Date:_____
	Chuck Suszko (TG Co-chair)	
Approved By	_____	Date:_____
	Charley Rea (TG Co-chair)	
Approved By	_____	Date:_____
	Ron Stickel (TG Co-chair)	

**Concrete Products TG Quarterly Meeting Attendance Log as of 9 January 2014**

Member	Role	TG Meeting (CT and Industry)											
		4/14/2011	7/14/2011	10/13/2011	1/26/2012	4/12/2012	7/12/2012	10/11/2012	1/10/2013	4/11/2013	7/11/2013	10/10/2013	1/9/2014
Dan Speer	Caltrans Co-Chair	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Chuck Suszko	Caltrans Construction	✗	✓	✓			✗	✗	✓	✓	✓	✗	
Bill Farnbach/Amy Fong	Caltrans Pavement Program	✗	✗	✓	✓	✓	✗	✓	✓	✓	✓	✓	
Roberto Lacalle	Caltrans Struct. Specs & Estmt.	✓	p	✓									
Marcelo Peinado	Caltrans District -11 Engineering	✓	✗	✗									
Dennis Agar	Caltrans District -10 Engineering	✓	✓	✓									
Jeremy Peterson-Self	Co-Chair, Precast Concrete STG						✓	✓	✓	✓			
Keith Hoffman	Co-Chair, Materials/QA & Precast STG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Cornelis Hakim	Co-Chair, Cast In Place Concrete Pavement STG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Mehdi Parvini	Co-Chair, Cast In Place Concrete Pavement STG	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Jinesh Mehta/Bobby Petska	Caltrans, Structural Materials Rep. (note taker)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Charley Rea	Industry Co-Chair-CALCIMA	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Bruce Carter	Industry Co-Chair	✓	✓	✓	✓								
Ron Stickel	Industry Co-Chair					✓	✓	✓	✓	✓	✓	✓	
Cliff Ohlwiler	Industry, Co-Chair, Precast Concrete STG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Tom Tietz	Industry, CNCA	✗	✗	✓	✓								
Mark Hill	Industry, Syar					✓	✓	✓	✓	✓	✓	✓	
Craig Hennings	Industry, ACPA-SW	✗	✗	✗	✗	✓	✗	✗	✗	✗	✓	✓	

**Legend:**

✓ Present

✗ Absent

p Pre-designated proxy

STATE OF CALIFORNIA  
PAVEMENT PROGRAM STATUS CALENDAR

# DEPARTMENT OF TRANSPORTATION

ROCK PRODUCTS  
COMMITTEE MEETINGS  
CALENDAR

2014

**JAN**

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**DEC**

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Calendar Legend

Quarterly Rock Products Committee  
(RPC) Meeting

Concrete Task Group 3+2 Meetings (1:30pm -  
2:30pm)

State Holidays

Concrete Materials & QA STG Meeting (1:00 -  
4:30 pm) - CT only

Concrete Materials & QA STG Meeting (1:00 -  
4:30 pm) - All

Precast Subtask Group Meeting  
(9:00 - 11:30 am) - All

Precast Concrete Subtask Group Meeting (9:00  
- 11:30 am) - CT only

Concrete Products Task Group Meeting  
Meeting (10:00-12:00)- All

Concrete Task Group CT Only Meeting  
Meeting (1:00-3:00 pm)-CT only

Cast In Place Pavement Subtask Group  
Meeting (9:00am - 11:00am)-All

Cast In Place Pavement Subtask Group  
Meeting (9:00am - 11:00am)-CT Only

Concrete Materials & QA Sub-Task Group: Issue Status Summary, January 2014					
Project Priority	Project	Purpose	Overall Progress	Target Completion Date	% Complete
1	Structural Concrete QC/QA Specification Development	Implement performance-based specifications for materials management of structural concrete.	Additional outreach with other pilot projects and Industry to take place. Coordination to continue for scheduling of ACI trainings and Pre-Bid Outreach meetings for Pilot Projects both in Northern CA and Southern CA. Continue conducting pre-bid meetings. Use gathered feedback from beta testing of DIME to update and roll out for larger use. Finalize QA guidance report to generate corresponding bulletins for state staff. Amendment to IA manual upcoming, develop long term IA processes. Discuss project lists. Discuss communications with Districts and Contractors (Outreach).	12/31/2014	75%
2	Update Construction Manual	Update Construction Manual to conform to changes made to Sections 6, 9, 11, 40, 49, 51, 53, 72, 73, 83, and 90 of the 2010 Standard Specifications.	Review of draft subsections taking place. Subject matter experts creating workplans and drafts for remaining Section 3, 4, 5, and 8 subsections and Section 6 and 7.	12/31/2012	85%
3	Recycled Concrete	Evaluate possibilities for use of recycled (hardened and plastic) concrete	Monthly project team meetings to continue. Next scheduled meeting is on January 24, 2014. Industry to meet with Weights and Measures on December 20, 2013 and send information on MPQP manual. The carbon footprint savings report was received by project team on June 21, 2013. Draft Specs to be complete in coming weeks.	6/30/2014	75%
Bin List Items	Shotcrete Specification Updates	Update the provisions in Section 53 to clarify such factors as SCM content, testing requirements, etc.	Draft scoping document in process; discussion underway with Industry; timeline and necessary deliverables to be clarified in coming months	TBD	N/A
	Flexural Beam Testing in accordance with ASTM (Joint Activity with CIP Pavement STG)	Industry requesting update of ASTM/CTM requirements related to Flexural Test specimen curing, testing, etc.	Draft scoping document in process; discussion underway at various levels and at CIP Pavement STG; timeline and necessary deliverables to be clarified in coming months	TBD	N/A
	Green Concrete/ASR/Limestone Spec Updates in Section 90	Update the provisions in Section 90 to ensure that CO2 reduction goals are captured but independent of ASR Reduction goals	Activity to be developed in conjunction with "ASR Research Problem Statement". Research from ASTM Limestone Cement updates may be incorporated into this activity	TBD	N/A
	Smog-Eating Concrete	Develop specifications and design guidelines for the use	This item is currently under evaluation. A pilot project is to be selected in the near future, with the goal of capturing lessons learned. A meeting with Caltrans and Lehigh personnel took place on 30 August 2012.	TBD	N/A
	Cubic Yardage Concrete and Aggregate Deduction	Update the provisions in Section 90 to better ensure compliance with Specifications	Discussion underway at STG level; timeline and necessary deliverables to be clarified	TBD	N/A
	Evaluate shrinkage specification for concrete	Review SE/CV characteristics and then effect on shrinkage performance and evaluate shrinkage control needs for CT concrete	Draft scoping document in process; discussion underway at project team level; timeline and necessary deliverables to be clarified in coming months	TBD	N/A
	Performance-Based Specifications for concrete	With the latest advances in concrete technology and availability of new tests. move towards performance specifications	Using surface resistivity and other performance criteria refine the specifications from prescriptive to performance	TBD	N/A
	PT Grout Specification	Pre-approved list for grout products and updated specification is needed	Working in conjunction with DES Prestress Committee and Precast Design Committee	TBD	N/A
	Separate out ASR requirements from green concrete related spec in section 90	Update the provisions in Section 90 to ensure that CO2 reduction goals are captured but independent of ASR Reduction goals	To be developed in conjunction with "ASR Pavement TAP research". Research from ASTM Limestone Cement updates may be incorporated into this activity	TBD	N/A

## Structural Concrete QC/QA Specification Development

**Sub Task Group (STG): Materials & QA**

**Priority: 1**

**STG Co-Chair: Keith Hoffman**

**Project Team Lead: John Lammers**

**Project Team Members:** Cathrina Barros, Ruth Fernandes, Austin Perez, Craig Knapp, Mike Cook, Rosme Aguilar, The' Pham, Deepak Maskey, Al Ochoa, Rick Navarro, (CCTIA)

**Project Team Advisors:** Rita Leahy, Jinesh Mehta, Ken Beede

**DEADLINE: 12/31/2014**

**PERCENT COMPLETE: 75%**

### OBJECTIVES:

Implement quality control sampling and testing for structural concrete as directed in the decision document signed by the Chief Engineer and Deputy Director of Maintenance and Operations in December 2010. Determine appropriate QC sampling and testing standards as well as acceptance (QA) sampling and testing guidance consistent with federal regulations. These requirements and guidance should be implementable for any project regardless of procurement methods.

### ANTICIPATED SPEC-WRITER INVOLVEMENT:

Continuous efforts to include Prebid Outreach meeting and Section 11-4 language in all Pilot Project Specifications.

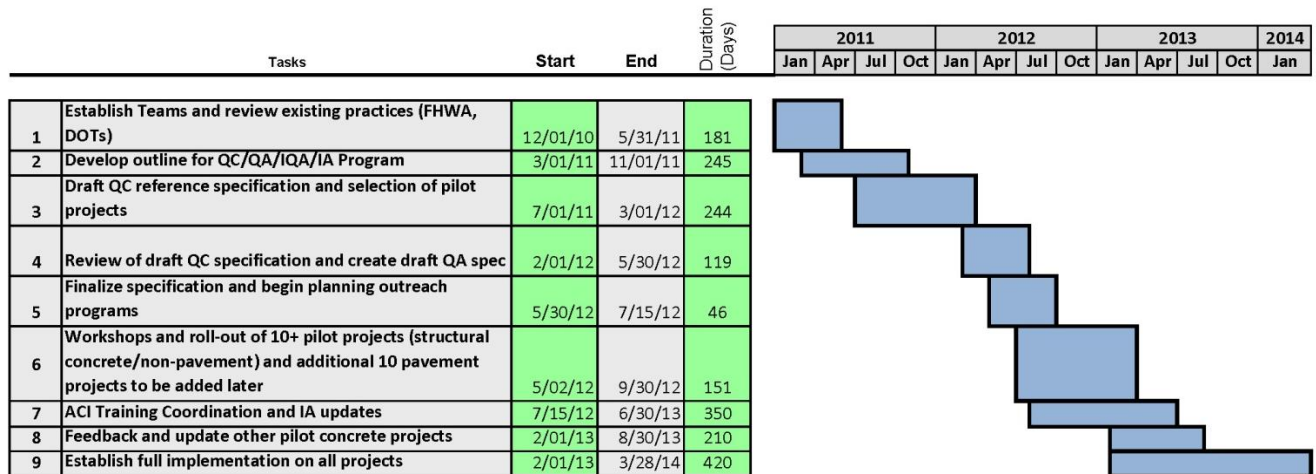
### RECENT ACTIVITIES:

- Sample ID/Test ID Spec change language – Complete
- ACI Training Roster– Recent trainings held on Oct 11<sup>th</sup>/18<sup>th</sup> class in Sacramento and Nov 15<sup>th</sup>/22<sup>nd</sup> at Southern Regional Lab training in Los Angeles. Upcoming trainings include Hayward and Los Angeles on Jan 10<sup>th</sup>/17<sup>th</sup> and San Diego in February. Training contracts approved for three 20-person classes in Northern CA and four 20-person classes in Southern CA.
- Full listings of all Pilot Projects are currently tracked and are continuously updated as needed.
- Coordination of Pre-Bid Outreach Meetings for upcoming Pilot Projects continues.
  - D07 Pilot Project removed from Pilot Project list as Prebid outreach meeting and Section 11-4 language was not included in specifications.
  - D04 Pilot Project Pre-Bid Outreach occurred on December 11<sup>th</sup> in Oakland Main Auditorium.
  - D8 Pilot Project – Project ongoing. Approximately 40 QC Tests have been input into DIME.
  - D11 Pilot Project – Project ongoing. Approximately 10 QC Tests have been input
  - D6 Pilot Project – In beginning stages. Pre Concrete meeting and DIME Training have taken place over the past months.
- QA Guidance Doc Development –continues to be refined. METS currently working with OSC on this assignment. Updates being made to document include FAQ section, DIME instructions, sample QC meeting agenda, QC checklist and sample QC Plan.

### UPCOMING ACTIVITIES:

- Additional outreach with other pilot projects and Industry to take place.
- Coordination to continue for scheduling of ACI trainings and Pre-Bid Outreach meetings for Pilot Projects both in Northern CA and Southern CA.
- Continue conducting pre-bid meetings.
- Use gathered feedback from beta testing of DIME to update and roll out for larger use.
- Finalize QA guidance report to generate corresponding bulletins for state staff.
- Amendment to IA manual upcoming, develop long term IA processes.
- Discuss project lists. Discuss communications with Districts and Contractors (Outreach).





Schedule to be continuously updated per Pilot Project roll-out dates and project progress.

## Use of Recycled Concrete Materials

**Sub Task Group (STG): Materials & QA**

**Priority: 3**

**STG Co-Chair: Keith Hoffman**

**Project Team Lead: Mike Donovan,  
Don Vivant**

**Project Team Members:** Charley Rea, Craig Hennings,  
Deepak Maskey, Keith Hoffman,  
Jinesh Mehta, Pat Imhoff, Tarek Khan,  
Mike Serra, Robert Graine, Paul Fayer,  
Ruth Fernandes, Jim Cotey  
Basil Miranda, Steven Cook

**Project Team Advisors: TBD**

**DEADLINE: 6/30/2014**

**PERCENT COMPLETE: 75 %**

### OBJECTIVES:

By using various appropriate measures and devising clear limitations and practices, activity will examine returned concrete for use as minor (non-structural) concrete without compromising life cycle.

Currently, Caltrans specifications allow *aggregate* from plastic or hardened concrete to be used in road base and in various appropriate applications in new concrete. However, the use is not widely seen and therefore requirements should be evaluated and modified to promote more use for specified applications without compromising life cycle.

### ANTICIPATED SPEC-WRITER INVOLVEMENT:

Once the objective is clearly defined and necessary background research is performed, project team will work on coming up with recommended changes. It is likely that Specification involvement will include reviewing the draft Recycled Concrete Section 90 subsection.

### RECENT ACTIVITIES:

- Project team met with Division of Weights and Measures on August 9, 2013 to discuss the MPQP process and understand their concerns.
- Project team met with Climate Earth and industry to discuss carbon footprint savings for returned plastic concrete on June 4, 2013.
- A field trip was scheduled on September 11, 2013 to observe manufacturing of recycle concrete operations.
- Project team meeting took place on December 20 2013. Key deliverables for the coming months were discussed including draft specifications. A teleconference was held on December 2, 2013 with section 73 specification owner to discuss specification changes.

### UPCOMING ACTIVITIES:

- Monthly project team meetings to continue.
- Next scheduled meeting is on January 24, 2014.
- Industry to meet with Weights and Measures on December 20, 2013 and send information on MPQP manual.
- The carbon footprint savings report was received by project team on June 21, 2013.
- Draft Specs to be complete in coming weeks.

### SCHEDULE AND PROGRESS:

Current target completion date is June 2014.

**CIP Concrete Pavement Sub-Task Group: Issue Status Summary, January 2014**

Priority	Project	Purpose	Overall Progress	Target Completion Date	% Complete
1	Coefficient of Thermal Expansion (CoTE)	To CoTE as a criteria for design and construction of concrete pavements.	Received 278 total test results to date from 20 projects using six labs.	12/30/2013	90%
2	Roller Compacted Concrete	Develop standard provisions for the use of Roller Compacted Concrete	Draft special provisions are ready for implementing on trial project. Incorporated into one project in District 7	12/30/2013	35%
Bin List Item	Flexural Beam Testing in accordance with ASTM (Joint Activity with Materials/QA STG)	Industry requesting update of ASTM/CTM requirements related to Flexural Test specimen curing, testing, etc.	Draft scoping document in process; discussion underway at various levels and at CIP Pavement STG; timeline and necessary deliverables to be clarified in coming months	TBD	N/A

Precast Concrete Sub-Task Group: Issue Status Summary, January 2014					
Project Priority	Project	Purpose	Overall Progress	Target Completion Date	% Complete
1	Precast Pavement Specification Development	Develop comprehensive departmental guidance or standard approach on the use of precast concrete pavement.	Lessons Learned documents will be captured throughout Fall of 2013 for all ongoing Precast Pavement projects. The project team will continue to hold monthly meetings as necessary. Continued refinement of the PCP and PPCP nSSP. Provide path forward for completion of this task beyond December 2013.	12/31/2013	90%
Bin List Items	Prestressing Jack Equipment Calibration	Clarify responsibilities for Pretensioning Equipment Calibration	Draft scoping document in process; discussion underway with Industry; timeline and necessary deliverables to be clarified in coming months	TBD	N/A

## Precast Pavement Specification Development

**Sub Task Group (STG): Precast**

**Priority: 1**

**STG Co-Chair: Keith Hoffman**

**Project Team Lead: Mehdi Parvini**

**Project Team Members:** Doug Mooradian, Ruth Fernandes, Jim Ma, Jim Cotey, Tinu Mishra, Kirsten Stahl, Debbie Wong, Jonathan den Hartog, Shiraz Tayabaji, Tracy Vacura, Dave Merritt, John Grafton, Ziad Sakkal, Bobby Petska, Steve Healow, Sharon Hansen

**Project Team Advisors:** N/A

**DEADLINE: 12/31/2013**

**PERCENT COMPLETE: 90%**

### OBJECTIVES:

Precast concrete pavement systems were developed as an alternative for fast-setting cements or asphalt pavement systems in cases where a highway closure for longer than six hours is not a viable option. These systems are also beneficial in cases where high concrete durability and long pavement life are desired.

Although a few precast concrete pavement projects have already been built throughout the state, there is no comprehensive departmental guidance or standard approach on the use of precast concrete pavement.

### ANTICIPATED SPEC-WRITER INVOLVEMENT:

Some involvement needed in final review of SSPs and in compiling input from various stakeholders.

### RECENT ACTIVITIES:

SSP and Standard Plans will continue to be updated and refined. Feedback will be garnered from current pilot projects.

The latest Scoping Document has been distributed to STG and project team.

The Precast Pavement Design Methodology report has been posted to the TG Website. The CalPPCP excel spreadsheet accompanying the report is available by request.

### UPCOMING ACTIVITIES:

#### For the next month:

- Discuss I-680 design lessons learned and how it can be applied to I-710 and other projects.
- The project team has developed an updated version of the Precast-Prestressed Concrete Pavement nSSP. This version will go to the Sub-Task Group for final approval once it is completed for the I-80 Solano project.
- Completion of the PPCP and PCP Standard Sheets

#### For the next two months:

- Final Review of Plans and Specifications
- Finalizing of Activity